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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/518,763DATE: 03/23/2000
TIME: 12:19:31

Input Set: I518763.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

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1 <110> APPLICANT: Blissard, Gary W.
2 Granados, Robert R.
3 Lin, Guangyun
4 <120> TITLE OF INVENTION: STABLE CELL LINES RESISTANT TO APOPTOSIS AND NUTRIENT
5 STRESS AND METHODS OF MAKING SAME
6 <130> FILE REFERENCE: BTI44
7 <140> CURRENT APPLICATION NUMBER: US/09/518,763
8 <141> CURRENT FILING DATE: 2000-03-03
9 <160> NUMBER OF SEQ ID NOS: 7
10 <170> SOFTWARE: PatentIn Ver. 2.0
11 <210> SEQ ID NO 1
12 <211> LENGTH: 900
13 <212> TYPE: DNA
14 <213> ORGANISM: Autographa californica nucleopolyhedrovirus
15 <220> FEATURE:
16 <221> NAME/KEY: CDS
17 <222> LOCATION: (1)..(897)
18 <300> PUBLICATION INFORMATION:
19 <301> AUTHORS: Ayres, Martin D.
20 Howard, Stephen C.
21 Kuzio, John
22 Lopez-Ferber, Miguel
23 Possee, Robert D.
24 <302> TITLE: The Complete DNA Sequence of Autographa californica
25 Nuclear Polyhedrosis Virus
26 <303> JOURNAL: Virology
27 <304> VOLUME: 202
28 <305> ISSUE: 2
29 <306> PAGES: 586-605
30 <307> DATE: 1994
31 <308> DATABASE ACCESSION NUMBER: L22858
32 <309> DATABASE ENTRY DATE: 1999-03-08
33 <313> RELEVANT RESIDUES: 116492 TO 117391
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37 1 5 10 15
38 cga gat tgt cag gtg gac aaa caa acc aga gag ttg gtg tac att aac 96
39 Arg Asp Cys Gln Val Asp Lys Gln Thr Arg Glu Leu Val Tyr Ile Asn
40 20 25 30
41 aag att atg aac acg caa ttg aca aaa ccc gtt ctc atg atg ttt aac 144
42 Lys Ile Met Asn Thr Gln Leu Thr Lys Pro Val Leu Met Met Phe Asn
43 35 40 45
44 att tcg ggt cct ata cga agc gtt acg cgc aag aac aac aat ttg cgc 192

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46																	
47	gac	aga	ata	aaa	tca	aaa	gtc	gat	gaa	caa	ttt	gat	caa	cta	gaa	cgc	240
48	Asp	Arg	Ile	Lys	Ser	Lys	Val	Asp	Glu	Gln	Phe	Asp	Gln	Leu	Glu	Arg	
49	65					70					75					80	
50	gat	tac	agc	gat	caa	atg	gat	gga	ttc	cac	gat	agc	atc	aag	tat	ttt	288
51	Asp	Tyr	Ser	Asp	Gln	Met	Asp	Gly	Phe	His	Asp	Ser	Ile	Lys	Tyr	Phe	
52					85					90					95		
53	aaa	gat	gaa	cac	tat	tcg	gta	agt	tgc	caa	aat	ggc	agc	gtg	ttg	aaa	336
54	Lys	Asp	Glu	His	Tyr	Ser	Val	Ser	Cys	Gln	Asn	Gly	Ser	Val	Leu	Lys	
55				100					105					110			
56	agc	aag	ttt	gct	aaa	att	tta	aag	agt	cat	gat	tat	acc	gat	aaa	aag	384
57	Ser	Lys	Phe	Ala	Lys	Ile	Leu	Lys	Ser	His	Asp	Tyr	Thr	Asp	Lys	Lys	
58			115						120					125			
59	tct	att	gaa	gct	tac	gag	aaa	tac	tgt	ttg	ccc	aaa	ttg	gtc	gac	gaa	432
60	Ser	Ile	Glu	Ala	Tyr	Glu	Lys	Tyr	Cys	Leu	Pro	Lys	Leu	Val	Asp	Glu	
61		130					135					140					
62	cgc	aac	gac	tac	tac	gtg	gcg	gta	tgc	gtg	ttg	aag	ccg	gga	ttt	gag	480
63	Arg	Asn	Asp	Tyr	Tyr	Val	Ala	Val	Cys	Val	Leu	Lys	Pro	Gly	Phe	Glu	
64	145					150					155					160	
65	aac	ggc	agc	aac	caa	gtg	cta	tct	ttc	gag	tac	aac	ccg	att	ggt	aac	528
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72	Glu	Tyr	Asp	Val	Val	Ala	Tyr	Val	Asp	Ser	Val	Gln	Phe	Asp	Gly	Glu	
73			195				200					205					
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75	Gln	Phe	Glu	Glu	Phe	Val	Gln	Ser	Leu	Ile	Leu	Pro	Ser	Ser	Phe	Lys	
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77	aat	tcg	gaa	aag	gtt	tta	tat	tac	aac	gaa	gcg	tcg	aaa	aac	aaa	agc	720
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102       35           40           45
103   Ile Ser Gly Pro Ile Arg Ser Val Thr Arg Lys Asn Asn Asn Leu Arg
104       50           55           60
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106       65           70           75           80
107   Asp Tyr Ser Asp Gln Met Asp Gly Phe His Asp Ser Ile Lys Tyr Phe
108       85           90           95
109   Lys Asp Glu His Tyr Ser Val Ser Cys Gln Asn Gly Ser Val Leu Lys
110       100          105          110
111   Ser Lys Phe Ala Lys Ile Leu Lys Ser His Asp Tyr Thr Asp Lys Lys
112       115          120          125
113   Ser Ile Glu Ala Tyr Glu Lys Tyr Cys Leu Pro Lys Leu Val Asp Glu
114       130          135          140
115   Arg Asn Asp Tyr Tyr Val Ala Val Cys Val Leu Lys Pro Gly Phe Glu
116       145          150          155          160
117   Asn Gly Ser Asn Gln Val Leu Ser Phe Glu Tyr Asn Pro Ile Gly Asn
118       165          170          175
119   Lys Val Ile Val Pro Phe Ala His Glu Ile Asn Asp Thr Gly Leu Tyr
120       180          185          190
121   Glu Tyr Asp Val Val Ala Tyr Val Asp Ser Val Gln Phe Asp Gly Glu
122       195          200          205
123   Gln Phe Glu Glu Phe Val Gln Ser Leu Ile Leu Pro Ser Ser Phe Lys
124       210          215          220
125   Asn Ser Glu Lys Val Leu Tyr Tyr Asn Glu Ala Ser Lys Asn Lys Ser
126       225          230          235          240
127   Met Ile Tyr Lys Ala Leu Glu Phe Thr Thr Glu Ser Ser Trp Gly Lys
128       245          250          255
129   Ser Glu Lys Tyr Asn Trp Lys Ile Phe Cys Asn Gly Phe Ile Tyr Asp
130       260          265          270
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145 <211> LENGTH: 38
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Line ? Error/Warning

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